

Pump Station 43 Emergency Force Main Replacement Project

9/20/18

FAQs:

1) Why is this project important? Why does it need to be done now?

- A.** In fall 2017, SPU crews took immediate action to disconnect a sewer main pipe which was discovered to have a leak in Shilshole Bay waterway. The existing force main was taken out of service when it was discovered to be damaged beyond repair. SPU has installed a temporary wastewater bypass system to divert sewage normally pumped from Pump Station 43 to the King County Treatment Facility. However, this bypass system has limited capacity and wet weather events will likely overwhelm the temporary system and possibly overflow untreated sewage into the waterway. SPU's goal is to develop a plan and construct the permanent system to manage and prevent sewer overflows from reaching the waterway.

2) What are working hours going to be? Will it be noisy when I'm trying to sleep?

- A.** At this time, work hours are expected to be 7am through 6pm, Monday through Friday. Scheduled work that needs to take place on the weekend or overnight will be communicated to the public in advance.

3) Will parking be affected? If so, where and for how long?

- A.** Parking will be affected temporarily throughout construction in the three main work areas (two on the north and one on the south side of the waterway). Construction is expected to take six months between December 2018 and June 2019. No Parking Signs will be placed in advance of construction activities. At this time, the project team expects restricted parking to be unavailable during the week, but available during evening and weekend hours. Please take note of the dates on the signage. Following construction, SPU estimates a total of 3 parking spaces will be permanently eliminated from the Seaview Frontage Road to accommodate service vaults.

4) Will any driveways be inaccessible? For how long?

- A.** On the north side of the waterway, driveways may be temporarily inaccessible during construction work due to moving equipment, materials, etc. It is not our intent to permanently block any driveways in this area for any length of time without the owner's consent. If your driveway is blocked, please flag one of the contractors who will work with you to open access. For safety, please do not enter the work areas.

On the south side of the waterway, one driveway will be inaccessible during the entirety of construction work. This impact is being coordinated with the homeowners.

5) Will the Burke-Gilman Trail be closed? What will the detour be? For how long?

- A.** Yes, the BGT will be closed throughout construction. A detour will be provided around the work site and will be clearly marked. SPU will be asking bikers to dismount and walk through the detour route. The detour will be in place for 6 months and may change as the construction work area changes.

6) What will the impacts be to Seaview Avenue NW? For how long?

- A.** A single lane closure of Seaview Avenue NW will be in place for approximately one month. Flaggers will move traffic around the closure. Drivers are encouraged to detour around Seaview to lessen the traffic impact. Intermittent single lane closures may be necessary to accommodate movement of materials and equipment and for restoration purposes. Portions of the Seaview Avenue Frontage Road (gravel portion of Seaview south of BGT) will be the main site of construction and users will be asked to detour around the work area.

7) What is Horizontal Directional Drilling?

- A.** HDD is not the same as tunneling. HDD uses a drilling machine to drill a small hole from one side of the bay to the other, into which a pipe is pulled. Several passes with increasing diameter of the cutting head may be used to prepare the drilled hole to the size needed. The borehole is filled and supported with bentonite clay slurry at all times and the pipeline is installed into the prepared borehole.

8) Will the drilling cause my house to settle? Or vibrate?

- A.** No. The depth of the drilled borehole was designed to be deep enough to not cause any impact on the surface near houses within the project site. Other activities onsite may cause vibrations at the launch site only, such as the Soil Separation Plant, which uses a vibrating screen to separate out rocks and soil from the bentonite clay slurry so the slurry can be reused.

9) Is this like Big Bertha? How will this project be successful when previous tunneling projects have had major problems and delays?

- A.** HDD is not the same as tunneling. HDD uses a drilling machine to advance a drill stem through the ground surface. The drill head can be steered around obstructions. Operators simply back up the drill and steer it around an obstruction. There are always risks to drilling through the subsurface without knowing exactly what's there. The project team is comprised of Geotechnical Engineering professionals who have examined the subsurface conditions reported at critical depths across the channel and are confident that subsurface materials across the site are conducive to this type of drilling method.

10) Will the drilling pressures affect my house?

- A.** No. The depth of the drilled borehole was designed to be deep enough to not cause any impact on the surface near houses within the project site.